

**Course Outline Guideline****Title:** MaTHink 2014**Reg. #:** 133 EDC C18**Class Depart/Number:** MATH X430.F**Number of Units:** 1 quarter unit**Number of Hours:** 10 hours**Fee:** \$65.00

**Description:** Participants will attend the MaTHink 2014, “Changing Practice Now!” featuring university professors and other mathematics experts sharing their research and findings that will impact student success in the mathematics classroom. K-12 instructional strategies and practices worthy of attention in the teaching of mathematics will be shared and discussed.

**Prerequisite:** None**Expected Learning Outcomes/Objectives:**

- 1) Participants will receive latest information from university professors and other mathematics experts regarding the current research that supports success in mathematics, including the CCSS-Math and the Standards for Mathematical Practice.
- 2) Participants will begin to craft a plan for mathematical excellence for students struggling with mathematics.
- 3) Participants will learn effective instructional strategies to assist English Learners who are struggling with mathematics.
- 4) Participants will use the ideas learned at the forum and incorporate them into classroom practice.
- 5) Participants will integrate some technology into their plan.

**Upon completion of this course participants will:**

- 1) Implement Standards for Mathematical Practice.
- 2) Incorporate effective instructional strategies to support English Learners in the K-12 classroom.
- 3) Reflect on how the mathematics research relates to classroom practice.
- 4) Consider the application of this workshop in changing their own practice.

**Topics:**

- 1) The State of Mathematics.
- 2) Instructional strategies for English Learners.
- 3) Topics on Common Core State Standards.
- 4) Math Content Specific topics.
- 5) Parent and Community Support
- 6) Integration of Technology into math classroom.
- 7) Number and Algebra Talks
- 8) STEM

**Methods of Instruction/Teaching Method:** Lecture, Small Group Discussion, Group Activities

**Text/Readings:** No readings.

**Requirements, Evaluation and Grading Scale:**

- 1) Attendance of entire forum and completion of written homework assignment.
- 2) Homework assignment time allotment: Three hours
- 3) Two-page (double spaced) written reflection of the implications for classroom practice/school-wide implementation based on the information from the speakers, EL presentations, CCSS-M and the Standards for Mathematical Practice.
- 4) 100% of grade will be based on this two-page reflection.
- 5) Grading Scale:  
**A:** Thoughtful reflection, description and evidence of *implemented* practices.  
**B:** Thoughtful reflection and description of *planned* implementation.  
**C:** Limited reflection and description.  
**D:** Summary of the presentations.
- 6) Due date: “Postmarked” **or** “Emailed” by **Friday, April 4, 2014.**

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